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• **Toukhy, Medhat A.**  
**Barrington, Rhode Island 02806 (US)**

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(74) Representative: **Baker, Colin John et al**  
**Withers & Rogers,**  
**4 Dyer's Buildings,**  
**Holborn**  
**London EC1N 2JT (GB)**

(71) Applicant: **OCG MICROELECTRONIC**  
**MATERIALS, INC.**  
**Cheshire, Connecticut 06410-0586 (US)**

(72) Inventors:  
• **Jeffries, Alfred T., III**  
**Providence, Rhode Island 02907 (US)**

(54) **Photoresist compositions containing supercritical fluid fractionated polymeric binder resins**

(57) A photoresist composition comprising either an admixture or a reaction product of:

(a) at least one photosensitive compound selected

from the group consisting of a photoactive compound, photo acid generators, and mixtures thereof; and

(b) at least one polymeric binder resin fractionated with a supercritical fluid.



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# EUROPEAN SEARCH REPORT

Application Number  
EP 96 30 0988

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	WO-A-93 12055 (THE DOW CHEMICAL COMPANY) 24 June 1993 * page 19, line 10 - line 12 *	1	G03F7/004 G03F7/023
Y	* claims 1,15 *	2-4	
Y	--- EP-A-0 623 633 (OCG MICROELECTRONIC MATERIALS, INC.) 9 November 1994 * page 7, line 25 - line 33 * * page 17; example 23 * * page 21; example 31 *	2-4	
A	--- EP-A-0 615 163 (SHIN-ETSU CHEMICAL CO., LTD.) 14 September 1994 * page 6, line 55 - line 58; examples *	1-4	
A	--- PATENT ABSTRACTS OF JAPAN vol. 011, no. 349 (C-456), 14 November 1987 & JP-A-62 121754 (JAPAN SYNTHETIC RUBBER CO LTD), 3 June 1987, * abstract *	1-4	
A	--- GB-A-2 242 434 (TOYO ENGINEERING CORPORATION) 2 October 1991 * claim 4 *	4	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 February 1997	Examiner J.-M. DUPART
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
P, A	<p>DATABASE INSPEC INSTITUTE OF ELECTRICAL ENGINEERS, STEVENAGE, GB Inspec No. 5059664, ALLEN R D ET AL: "Performance properties of near-monodisperse novolak resins" XP002024893 * abstract * &amp; ADVANCES IN RESIST TECHNOLOGY AND PROCESSING XII, SANTA CLARA, CA, USA, 20-22 FEB. 1995, vol. 2438, ISSN 0277-786X, PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, 1995, USA, pages 250-260, -----</p>	1-4	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 February 1997	Examiner J.-M. DUPART
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p>		<p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>----- &amp; : member of the same patent family, corresponding document</p>	

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